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State of Washington  
Department of Ecology  
Yakima, Washington

IN THE MATTER OF GROUND WATER                   )  
APPLICATION NO. G4-31439 BY                    )  
GEORGE F. JOSEPH ORCHARD SIDING, INC.)

Preliminary Permit

On September 22, 1992, George F. Joseph Orchard Siding, Inc. of Yakima, Washington, filed an application for Ground Water Permit with the Central Region Office, Department of Ecology.

The application has been assigned to the Yakima County Public Works Department which has requested a PRELIMINARY PERMIT for the purpose of constructing a test well and determining the potential for on-site water production to meet the water requirements of the fruit processing plant proposed by the application. The information resulting from the construction of a test well and the test pumping of that well is vital to the permit deliberations of the application.

This PRELIMINARY PERMIT is issued under authority of Section 90.44.060 RCW and Sections 90.03.250 through 90.03.290 RCW.

This PRELIMINARY PERMIT is subject to the following provisions:

1. This PRELIMINARY PERMIT authorizes the construction and testing of one (1) test well located within the proposed place of use as described by application No. G4-31439, being within the SW $\frac{1}{4}$ NE $\frac{1}{4}$ , Section 26, T. 11 N., R. 20 E. W. M. ✓
2. The PRELIMINARY PERMIT will remain in effect for one year (365) days from date of issuance unless sooner revoked by the Department of Ecology.
3. No test well shall be constructed prior to a pre-construction meeting between the applicant, the drilling contractor, and the technical staff of the Central Regional Office to discuss construction techniques and potential problems which may be encountered during construction.
4. The test well shall meet minimum construction standards as set forth within Chapter 173-160 WAC.

The test well shall also be constructed in accordance with the technical specifications submitted to this office by Hong West and Associates, Inc. on April 15, 1993, except for the following conditions:

- a. The well shall be cased and permanently sealed into the Elephant Mountain Flow of the Saddle Mountains Basalt Formation.
  - b. The well shall be drilled using mud rotary methods.
  - c. The annular space between the 16-inch borehole and the 12-inch permanent casing shall be pressure grouted from the base of the 12-inch casing to the ground surface using neat cement grout. The cement grout shall be allowed to cure for a minimum of 72 hours before drilling resumes.
5. Pump testing of the completed test well shall not be conducted until:
- a. The applicant notifies the Department of Ecology in writing three (3) working days in advance, prior to beginning the aquifer test. Raw data acquired during drilling and pump testing shall be tabulated and provided to the Department of Ecology within thirty (30) days of completion.
  - b. A pre-test meeting has been conducted between the contractor and the staff of the technical unit of this office to determine testing procedures which will result in data which is adequate in making a final determination regarding application No. G4-31439.
  - c. A water well report for the completed well has been submitted to this office and the construction of the well has been approved by Ecology.

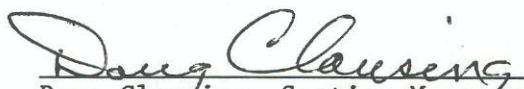


- d. The test pump system is fitted with a backflow check-valve(s) that will prevent water within the riser pipe from flowing back into the well when the pump is shut off (to facilitate accurate recovery data collection).
6. A qualified hydrogeologist or engineer (Water Resource) shall be on site to oversee all well drilling and testing and provide all subsequent analysis. The test shall be conducted by pumping at a constant rate for a minimum of 24 hours, with stabilization occurring for at least the last 4 of those hours. Stabilization is defined as a drop in water level of less than or equal to 0.1 feet per hour. Drawdown and recovery measurements must be made in the same manner and at the same frequency as described in Water Resource Information System (WRIS) Information Bulletin No. 30. Once the pump has been turned off, measurements shall be taken until 95% recovery is achieved. All procedures shall conform with Bulletin No. 30.
7. A step-drawdown test shall be conducted and shall include a minimum of 5 steps or pumping rates. Date, time, duration, pumping rate (Q), drawdown (s), and specific capacity (Q/s) for each step shall be tabulated and included in the completion report. The pumping rate for the constant rate test shall be determined from the step-drawdown test. The well shall be left to recover to near static water levels prior to initiation of the constant rate aquifer test.
8. No water pumped from the test well shall be discharged to any surface water body.
9. When aquifer testing is completed, the data shall be analyzed by a qualified hydrogeologist or water resource engineer and all pertinent information compiled into a completion report. This completion report shall be submitted to the Department of Ecology, Central Regional Office, ATTN: Tom Mackie, within sixty (60) days after the completion of the test and shall include or address the following:
  - a. A well construction report (well log) for the pumping well and all monitoring wells. Each well log shall include the following:
    - (1) Location of the well
    - (2) Drilling method used to drill the hole
    - (3) Dimensions including diameter, depth drilled, and depth of completed well
    - (4) Construction details including diameter of casing(s) installed from \_\_\_\_ft to \_\_\_\_ feet below ground surface (bgs).
    - (5) Perforations including size, number, and location with respect to ground surface.
    - (6) Screens installed \_\_\_\_Yes, \_\_\_\_No, Manufacturers Name\_\_\_\_, Type\_\_\_\_, Diameter from \_\_\_\_ft(bgs) to \_\_\_\_ft(bgs)
    - (7) Gravel packed : \_\_\_\_Yes, \_\_\_\_No, to what depth\_\_\_\_(bgs)
    - (8) Surface seal to what depth\_\_\_\_(bgs)
    - (9) Static water level elevation above mean sea level (include date taken)
    - (10) Lithologic descriptions including the lithology, color, grain size, fracture frequency, nature of fractures (filled or void) depth of top and bottom of each change in materials, depth of top and bottom of each water bearing zone or strata.
    - (11) Schematic cross-section of the well drawn to scale that illustrates the written description listed above.

- b. Land surface elevations to the nearest foot for all measuring points.
  - c. Estimated aquifer transmissivity, based upon analysis.
  - d. Estimate aquifer storativity based upon data analysis.
  - e. Estimate the radius of influence of the well.
10. All expenses, risks, and liabilities incurred during testing of this well shall be borne by the applicant. If senior water right holders are adversely affected during any portion of the aquifer test, the test shall be terminated.
11. The well constructed under this authority must be capped after test pumping in accordance with Chapter 173-160 WAC, until such time that an authorization has been granted by Ecology for withdrawal of water for beneficial use.
12. This PRELIMINARY PERMIT does not grant right-of-way nor easement to land unowned by the applicant.
13. This PRELIMINARY PERMIT does not guarantee nor imply that a permit authorizing development of the project proposed by application No. G4-31439 will be approved.
14. This PRELIMINARY PERMIT shall expire one year from the date of issuance or upon completion of testing of the constructed well.
15. Failure to comply with the conditions of this PRELIMINARY PERMIT may result in cancellation of the permit and rejection of the subject applications.
16. You have the right to obtain review of this order. Request for review must be made, within thirty (30) days of receipt of this order, to the Washington Pollution Control Hearings Board, PO Box 40903, Olympia, Washington 98504-0903. Concurrently, a copy of the request must be sent to the Department of Ecology, PO Box 47600, Olympia, Washington 98504-7600. These procedures are consistent with the provisions of Chapter 43.21B RCW and the rules and regulations adopted thereunder.

Should you have any questions regarding this PRELIMINARY PERMIT please contact Tom Mackie at (509) 575-2800.

Signed at Yakima, Washington this 20<sup>TH</sup> day of April, 1993.

  
Doug Clausen, Section Manager  
Water Resources Program  
Central Regional Office  
Department of Ecology

ENGINEERING DATA  
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